

SECTION 10 4400

FIRE PROTECTION SPECIALTIES

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Fire POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fire extinguishers, fire extinguisher cabinets, and brackets for wall mounting.

1.2 SUBMITTALS

- A. Submit the following in accordance with Section 01 3300, Submittal Procedures:
 - 1. Catalog data indicating roughing-in dimensions and details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style and door construction, and panel style and materials.
 - 2. Shop Drawings indicating location and type of fire extinguisher.

PART 2 PRODUCTS

2.1 PRODUCT OPTIONS AND SUBSTITUTIONS

- A. Comply with Section 01 2500, Substitution Procedures.

2.2 MANUFACTURERS (CABINETS)

- A. J. L. Industries
- B. Larsen's Mfg. Co.

- C. Johnson-Lee, Division of W. F. Lee Corp.
- D. Muckle Manufacturing, Division of Technico, Inc.
- E. Watrous, Inc.

2.3 FIRE EXTINGUISHER CABINETS

- A. General: Provide fire extinguisher cabinets where indicated, of suitable size for housing fire extinguishers of types and capacities indicated.
- B. Construction: Manufacturer's standard enameled steel box, with trim, frame, door and hardware to suit cabinet type, trim style, and door style indicated. Weld all joints and grind smooth. Miter and weld perimeter door frames.
- C. Cabinet Type: Suitable for mounting conditions indicated, of the following types:
 - 1. Semi-Recessed: Cabinet box (tub) recessed in walls of sufficient depth to suit style of trim indicated. Minimum size of 12 x 27 x 8 inches inside to house one Contractor furnished and installed extinguisher.
- D. Trim Style: Fabricate trim in one piece with corners metered, welded and ground smooth.
 - 1. Exposed Trim: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).
 - a. Rolled-Edged Trim: Rolled edges with backbend depth of 4 1/2 inches.
 - b. Trim Metal: of same metal as door.
- E. Door Material and Construction: Manufacturer's standard door construction, of hollow steel construction, coordinated with cabinet types and trim styles selected.
- F. Door Style: Manufacturer's standard design with Full-Glass Panel with 1/4 inch tempered glass.
- G. Door Hardware: Provide manufacturer's standard door operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide either lever handle with cam action latch, or door pull, exposed or concealed, and friction latch. Provide concealed or continuous type hinge permitting door to open 180 degrees.

2.4 FACTORY FINISHING OF FIRE EXTINGUISHER CABINETS

- A. General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations except as otherwise indicated. Apply finishes in factory after products are assembled. Protect cabinets with plastic or paper covering, prior to shipment.
- B. Painted Finishes: Apply baked enamel finish to both concealed and exposed surfaces of cabinet components except where other than a painted finish is indicated.
 - 1. Color: Red.

2.5 FIRE EXTINGUISHER

- A. Provide portable fire extinguishers, UL Listed, in accordance with NFPA 10 for quantity and type, based on occupancy and hazards.

2.6 ACCESSORIES

- A. Provide screw anchored hooks for extinguishers in non-public spaces.
- B. Provide signage to be located above the recessed cabinets capable of view perpendicular and horizontal to the surface of the cabinet. Typical signs are white lettering or symbols on red background.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install cabinets in locations indicated on the Drawings and at the mounting height of 5 feet maximum from finished floor to top inside surface of cabinet.
 - 1. Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
 - 2. Securely fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Specification 10 4400 Rev. 0, dated January 6, 2006.